

Product datasheet for **RG207539**

Apc2 (ANAPC2) (NM_013366) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apc2 (ANAPC2) (NM_013366) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Apc2
Synonyms:	APC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG207539 representing NM_013366
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGCAGTTGTGGTGGCGGAGGGGACAGCGACTCCCGCCCGACAGGAGTTGTAGTGGCT
 GGAACACCGTGAGCACCGCCTGGTGCCGCCGGCTGCGCTGGGGCTGGTGTCTTCCCGACCAGCGGTGC
 AGTCCCGCAAAGGAAGAGGAGCTCCGGCGCGGTGGAGTTCTGAGGGCCACGGGCTACACTCGGT
 CTGGAGGAGTGGTTCGTGGAGGTGCTGCAGAACGATCTGCAGGCCAACATCTCCCTGAGTTCTGGAATG
 CCATCTCCCAATGCGAGAAGCTCTGCGGATGAGCCCCAGTGCCTTTTGTACTCCTTGACGCTTTTGGCT
 GCTGGAGAGCCGCTGGATCCCTACCTGCGTAGCCTAGAGCTGCTGGAGAAATGGACTCGCTGGGCTTG
 CTGATGGGCACTGGTCTCAGGGCTGCGAGAAGAAGTCCACACTATGTTGCGCGGAGTCTTGTCTTTA
 GCACCCCAAGAACCTTCCAAGAGATGATCCAGCGTCTGTATGGGTCTTCTTGAGAGTCTATATGCAGAG
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 CGGTACTACCGGCTCCTGCAGAGCCCGTGTGTGCAAGGTGCAGCAGTGACAAGCAACAGTCTGGTGTG
 GCCAGGCTCTGGAGCAGTTCCATCAGCTCAGCCAGGTCTTACACAGGCTCAGTCTGCTGGAGCGGGT
 TGCCGAGGCTGTGACCACCACCTGCACCAGGTGACCCGGGAGAGGATGGAGGACCGTTGCCGGGGCGAG
 TACGAGCGCTCCTTCTGCGTGAGTTCCACAAGTGGATCGAGCGGGTGGTGGCTGGCTCGGCAAGGTGT
 TCCTGCAGGACGGCCCGCAGGCCCGCATCTCCCGAGGCCGCAACACCTGCGCCGCTGGCGCTGCCA
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 TTCAGACTCCCGCCAGCCATCGAGGACCTCAAGTACTGCCTGGAGAGGACGGACAGAGGACGACGAG
 TGCTCGTGTCCCTCAAGGCTGCCCTGGAGACTCGGCTCCTGCATCCAGGCGTCAACACGTTGACATCAT
 CACCCTCTATATCTCTGCCATCAAGGCGCTGCGGGTGTGGACCCTTCCATGGTCACTCTGGAGGTGGCC
 TGTGAGCCTATCCGCGCTACCTGAGGACGCGGGAGGACACAGTGCAGGAGATTGTGGTGGGCTGACGG
 GGGACTCGGACGGGACAGGGGACCTGGCTGTTGAGCTGTCCAAGACCGACCCGGCGAGCCTGGAGACAGG
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 GGAGATCCGCAACGTGGAGCTGCTGAAGTGCCTTTGGCGAGGCCCAATGCATCTCTGTGAAGTCATG
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 GAAGCTGGAGGTCCCGAGGATATCAGGGCAGCCCTGGAGGCTTACTGCAAGAAGTATGAGCAGCTCAAG
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 GGGACAACATGGTGTCTATTGACAGTACGACGAGAGCGACTCCGGCATGGCTCCAGGCCGACCAAGAA
 GGAGGAGGAGCTGCTGCTTCTGGACGTACATCCAGGCCATGCTGACCAACCTGGAGAGCCTCTCACTG
 GATCGTATCTACAACATGCTCCGATGTTTGTGGTGAAGTGGGCGCTGCACTGGCCGAGATTGACCTGCAGG
 AGCTGCAGGGCTACCTGCAGAAGAAGTGCAGGACAGCAGCTCGTCTACTCGGCCGCGCTTACCGCT
 GCCAAGAAGTGCAGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG207539 representing NM_013366
 Red=Cloning site Green=Tags(s)

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MAAAVVVAEGSDSRPGQELLVAWNTVSTGLVPPAALGLVSSRTSGAVPPKEEELRAAVEVLRGHGLHSV
LEEFVFEVLQNDLQANISPEFWNAISQCENSADEPQCLLLLLDAFGLLESRLDPYLRSELELEKWTRLGL
LMGTGAQGLREEVHTMLRGVLFSTPRTFQEMIQRLYGCFLRVYMQSKRKGEGGTDPLEGELDSRYARR
RYYRLLQSPLCAGCSSDKQQCWCQRQALEQFHQLSQVLHRLSLLERVSAEAVTTTLHQVTRERMEDRCRGE
YERSFLREFHKWIERVVWLGKVFLQDGPARPASPEAGNTLRRWRCHVQRFFYRIYASLRIEELFSIVRD
FPDSRPAIEDLKYCLERTDQRQQLVSLKAALETLLHPGVNTCDIITLYISAIKALRVLDPSMILEVA
CEPIRRYLRTREDTVQRIVAGLTGSDSGTDLAVELSKTDPASLETGQDSEDDSGEPEDWVPDPVDADPG
KSSSKRRSSDIISLLVSIYGSKDLFINEYRLLADRLHGFSPEREIRNVELLKLRFGEAPMHFCEVM
LKDMADSRINANIREEDEKRPAAEQPPFGVYAVILSSEFWPPFKDEKLEVPEDIRAALAYCKKYEQLK
AMRTL SWKHTLGLVTMDVELADRTL SVAVTPVQAVILL YFQDQASWTL EELSKAVKMPVALLRRRMSVWL
QQGVLREPPGTF SVIEEERPQDRDNMVL IDSDDSDSGMASQADQKEEELLLFWTYIQAMLTNLESLSL
DRIYNMLRMFVVTGPALAEIDLQELQGYLQKKVRDQQLVYSAGVYRLPKNCS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_013366

ORF Size: 2466 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_013366.4](#)

RefSeq Size: 2733 bp

RefSeq ORF: 2469 bp

Locus ID: 29882

UniProt ID: [Q9UJX6](#)

Cytogenetics: 9q34.3

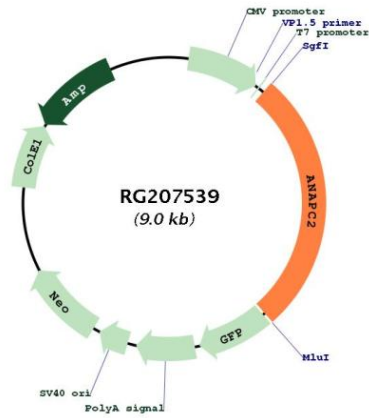
Domains: CULLIN

Protein Families: Druggable Genome

Protein Pathways: Cell cycle, Oocyte meiosis, Progesterone-mediated oocyte maturation, Ubiquitin mediated proteolysis

Gene Summary: A large protein complex, termed the anaphase-promoting complex (APC), or the cyclosome, promotes metaphase-anaphase transition by ubiquitinating its specific substrates such as mitotic cyclins and anaphase inhibitor, which are subsequently degraded by the 26S proteasome. Biochemical studies have shown that the vertebrate APC contains eight subunits. The composition of the APC is highly conserved in organisms from yeast to humans. The product of this gene is a component of the complex and shares sequence similarity with a recently identified family of proteins called cullins, which may also be involved in ubiquitin-mediated degradation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207539